

**Flood Control Project Maintenance  
Levee Inspections**  
**LMA District Cover Sheet**  
**Spring 2012 Levee Inspection Results**

**Reclamation District No. 1600 Mull**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)				

\*\* Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

\* SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments


**Flood Control Project Maintenance  
Levee Inspections  
Unit Cover Sheet  
Spring 2012 Levee Inspection Results  
Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles
Unit No. 01 Sacramento River	Right	10.51

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/8/2012 - 5/8/2012			
DWR Inspector	John Williamson			
Accompanied By	Kent Lang RD1600			
	Kyle Lang RD 537/ RD 1600			

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 1600 Mull**

Waterway		Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River		Right	10.51	05/08/2012 05/08/2012	John Williamson

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1			Earthen Levee	Operations & Maintenance Manuals	WS	A Ma		°	°	211
								DWR ID: DWR_RD1600_01_s_2012_211		
2			Earthen Levee	Emergency Supplies & Equipment	WS	A Ma		°	°	212
								DWR ID: DWR_RD1600_01_s_2012_212		
3			Earthen Levee	Flood Preparedness & Training	WS	A Ma		°	°	213
								DWR ID: DWR_RD1600_01_s_2012_213		
4	0.01	0.09	Earthen Levee	Encroachments	WS	U En	FE : Fences Inspector Comments: Chain link completely blocks access to water's edge.	38.675242 ° -121.630492 °	38.676356 ° -121.631157 °	3 Y
								DWR ID: DWR_RD1600_01_s_2012_3		
5	0.06	0.06	Earthen Levee	Encroachments	WSA/W	En	BU : Buildings Inspector Comments: This is the home and pumping plant for RD 2035.	38.675998 ° -121.630732 °	38.675998 ° -121.630732 °	1 Y
								DWR ID: DWR_RD1600_01_s_2012_1		
6	0.10	10.51	Earthen Levee	Vegetation	WS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	38.676480 ° -121.631215 °	38.765508 ° -121.634930 °	215 Y
								DWR ID: DWR_RD1600_01_s_2012_215		
7	0.10	10.51	Earthen Levee	Vegetation	LS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	38.676475 ° -121.631218 °	38.765515 ° -121.634913 °	214 Y
								DWR ID: DWR_RD1600_01_s_2012_214		
8	0.10	0.10	Earthen Levee	Encroachments	WS	M En	DE : Debris Inspector Comments: Pile of concrete	38.676480 ° -121.631220 °	38.676480 ° -121.631220 °	29 Y
								DWR ID: DWR_RD1600_01_s_2012_29		
9	0.10	0.24	Earthen Levee	Vegetation	WSA/W	Ob	V8 : Environmental Requirements.	38.676480 ° -121.631220 °	38.678140 ° ##### °	49 Y
								DWR ID: DWR_RD1600_01_s_2012_49		
10	0.46	0.46	Supplemental	USACE Erosion Survey	WS	M Ma	Inspector Comments: 2000 - Very cohesive vertical bank. 2003 - Some minor new erosion. 2006 - Some minor erosion in old pockets. 2009 - Minimal new erosion. 2011: Multiple new erosion pockets and a few new tree popouts. [2011 Site ID: SAC_71-3_R]	38.682707 ° -121.633830 °	38.684106 ° -121.634219 °	6 Y
								DWR ID: DWR_RD1600_01_s_2012_6		
11	0.98	0.98	Earthen Levee	Animal Control	WS	U Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	38.688428 ° -121.635498 °	38.688428 ° -121.635498 °	2 Y
								DWR ID: DWR_RD1600_01_s_2012_2		
12	1.02	1.11	Earthen Levee	Vegetation	WSA/W	Ob	V8 : Environmental Requirements.	38.689078 ° -121.635605 °	38.690267 ° -121.635650 °	22 Y
								DWR ID: DWR_RD1600_01_s_2012_22		
13	1.71	1.71	Earthen Levee	Encroachments	WS	M Ma	MA : Material Inspector Comments: Old metal ramp from unused dock, ramp is on levee shoulder.	38.698364 ° -121.631926 °	38.698364 ° -121.631926 °	9 Y
								DWR ID: DWR_RD1600_01_s_2012_9		

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 1600 Mull**

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River				Right	10.51	05/08/2012 05/08/2012	John Williamson

LMIR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
14	1.73	1.73	Earthen Levee	Vegetation	WSA/W	V8 : Environmental Requirements. Ob		38.698613 ° -121.631710 °	38.698613 ° -121.631710 °	31 Y
DWR ID: DWR_RD1600_01_s_2012_31										
15	2.17	2.17	Earthen Levee	Encroachments	WS	M En	DE : Debris Inspector Comments: concrete on waterside berm	38.702858 ° -121.625750 °	38.702858 ° -121.625750 °	33 Y
DWR ID: DWR_RD1600_01_s_2012_33										
16	2.36	2.42	Earthen Levee	Vegetation	WSA/W	V8 : Environmental Requirements. Ob		38.704592 ° -121.623067 °	38.705152 ° -121.622187 °	35 Y
DWR ID: DWR_RD1600_01_s_2012_35										
17	3.06	3.06	Earthen Levee	Vegetation	LS A/W	V4 : Elderberries are blocking visibility and flood fight capability. Ma		38.711597 ° -121.613890 °	38.711597 ° -121.613890 °	37 Y
DWR ID: DWR_RD1600_01_s_2012_37										
18	3.55	3.55	Supplemental Survey	USACE Erosion Survey	WS	M Ma	Inspector Comments: 1997 - Steep high bank. 2005 - Some small pockets in the low toe near the waterline. 2006 - Minor slope clearing. 2010 - Minor new erosion. 2011: Multiple trees have fallen since last year. Some other trees look ready to fall. Significant new erosion since last year. [2011 Site ID: SAC_74-4_R]	38.717770 ° -121.607423 °	38.721351 ° -121.606414 °	8 Y
DWR ID: DWR_RD1600_01_s_2012_8										
19	4.21	4.21	Supplemental Survey	USACE Erosion Survey	WS	M Ma	Inspector Comments: 1997 - Very steep bank. 2005 - Lots of small trees down along the bank at the upstream end. 2006 - Minor new erosion, but slow. 2010 - Almost all of the roots are exposed on the trees, appears ready to fall. 2011: New erosion and tree popouts. [2011 Site ID: SAC_75-3_R]	38.728684 ° -121.605844 °	38.736110 ° -121.604153 °	10 Y
DWR ID: DWR_RD1600_01_s_2012_10										
20	4.81	5.19	Earthen Levee	Vegetation	WS	C Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Mares tail has taken over.	38.735065 ° -121.604953 °	38.740265 ° -121.603097 °	24 Y
DWR ID: DWR_RD1600_01_s_2012_24										
21	5.26	5.26	Earthen Levee	Encroachments	WS	M En	DE : Debris	38.741197 ° -121.602645 °	38.741197 ° -121.602645 °	41 Y
DWR ID: DWR_RD1600_01_s_2012_41										
22	5.43	5.43	Earthen Levee	Vegetation	LS A/W	V4 : Elderberries are blocking visibility and flood fight capability. Ma		38.743632 ° -121.601173 °	38.743632 ° -121.601173 °	13 Y
DWR ID: DWR_RD1600_01_s_2012_13										
23	5.48	5.81	Earthen Levee	Erosion / Bank Caving	WS	M Ma	E1 : Note and monitor erosion site. Inspector Comments: Levee district had us add this because of the loss of the berm over years of water flows. Erosion is at the waters edge. Walnut trees are close to edge now.	38.744118 ° -121.601104 °	38.748210 ° -121.598025 °	19 Y
DWR ID: DWR_RD1600_01_s_2012_19										
24	5.79	5.79	Earthen Levee	Encroachments	WS	M En	PR : Prunings	38.748000 ° -121.598165 °	38.748000 ° -121.598165 °	44 Y
DWR ID: DWR_RD1600_01_s_2012_44										
25	5.88	5.88	Earthen Levee	Trim / Thin Trees	LS	C Ma	T1 : Trim trees to at least five feet above ground level.	38.749162 ° -121.597271 °	38.749162 ° -121.597271 °	12 Y
DWR ID: DWR_RD1600_01_s_2012_12										

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 1600 Mull**

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River				Right	10.51	05/08/2012 05/08/2012	John Williamson

LMIR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
26	6.05	6.05	Earthen Levee	Vegetation	LS Ma	M	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Berries cover the slope.	38.751303 ° -121.596087 °	38.751303 ° -121.596087 °	45 Y
								DWR ID: DWR_RD1600_01_s_2012_45		
27	6.23	6.23	Supplemental	USACE Erosion Survey	WS Ma	M	Inspector Comments: 2011: Large vertical eroded face from a rotational failure just below pump. [2011 Site ID: SAC_77-0_R]	38.755246 ° -121.594206 °	38.756186 ° -121.594024 °	11 Y
								DWR ID: DWR_RD1600_01_s_2012_11		
28	6.33	6.33	Earthen Levee	Trim / Thin Trees	LS Ma	C	T1 : Trim trees to at least five feet above ground level. Inspector Comments: Fig tree needs to be trimmed or removed cactus at levee toe.	38.755242 ° -121.594620 °	38.755242 ° -121.594620 °	15 Y
								DWR ID: DWR_RD1600_01_s_2012_15		
29	6.65	6.65	Earthen Levee	Trim / Thin Trees	LS Ma	M	T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.	38.759757 ° -121.594112 °	38.759757 ° -121.594112 °	26 Y
								DWR ID: DWR_RD1600_01_s_2012_26		
30	6.97	6.98	Supplemental	USACE Erosion Survey	WS Ma	M	Inspector Comments: 2006 - Eddy scour off end of rock causing erosion and scour hole near levee. Sandy silt bank with rock on upstream end. 2010 - Trees are leaning more, minor new erosion. 2011: Many of the tree roots have scoured out and trees look ready to fall. [2011 Site ID: SAC_77-7_R]	38.765219 ° -121.595049 °	38.764801 ° -121.594926 °	16 Y
								DWR ID: DWR_RD1600_01_s_2012_16		
31	7.00	7.00	Earthen Levee	Erosion / Bank Caving	WSA/W Ma	E1	Note and monitor erosion site.	38.764940 ° -121.595348 °	38.764940 ° -121.595348 °	14 Y
								DWR ID: DWR_RD1600_01_s_2012_14		
32	7.02	7.02	Earthen Levee	Erosion / Bank Caving	LS A/W Ma	E1	Note and monitor erosion site.	38.764974 ° -121.595533 °	38.764974 ° -121.595533 °	27 Y
								DWR ID: DWR_RD1600_01_s_2012_27		
33	7.13	7.13	Earthen Levee	Erosion / Bank Caving	WSA/W Ma	E1	Note and monitor erosion site.	38.766505 ° -121.596214 °	38.766505 ° -121.596214 °	20 Y
								DWR ID: DWR_RD1600_01_s_2012_20		
34	7.27	7.27	Earthen Levee	Erosion / Bank Caving	WSA/W Ma	E1	Note and monitor erosion site.	38.768409 ° -121.597213 °	38.768409 ° -121.597213 °	21 Y
								DWR ID: DWR_RD1600_01_s_2012_21		
35	10.42	10.42	Earthen Levee	Encroachments	CR Ma	C	EQ : Equipment Inspector Comments: Electrical wire cross the levee crown. No damage to crown.	38.766549 ° -121.634084 °	38.766549 ° -121.634084 °	30 Y
								DWR ID: DWR_RD1600_01_s_2012_30		

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	05/08/2012 05/08/2012	John Williamson

Levee Mile Report Line	4
Start Levee Mile	0.01
End Levee Mile	0.09
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Chain link fence no permit. The building and pumping plant in background is an issue.	
johngw_s_20120313_448.jpg	



Levee Mile Report Line	5
Start Levee Mile	0.06
End Levee Mile	0.06
Location	Water Side
Category	Earthen Levee
Item	Encroachments
The house of the operator of the pumping plant for RD 2035.	
johngw_s_20120313_447.jpg	



Levee Mile Report Line	6
Start Levee Mile	0.10
End Levee Mile	10.51
Location	Water Side
Category	Earthen Levee
Item	Vegetation
The grasses are taller than 12". Photo taken spring 2012.	
johngw_s_20120509_809.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	05/08/2012 05/08/2012	John Williamson

Levee Mile Report Line	7
Start Levee Mile	0.10
End Levee Mile	10.51
Location	Land Side
Category	Earthen Levee
Item	Vegetation
The grasses are taller than 12". Photo taken spring 2012.	
johngw_s_20120509_810.jpg	



Levee Mile Report Line	8
Start Levee Mile	0.10
End Levee Mile	0.10
Location	Water Side
Category	Earthen Levee
Item	Encroachments
A pile of concrete left over from the drilling of the well. Photo taken spring 2012.	
johngw_s_20120509_811.jpg	



Levee Mile Report Line	9
Start Levee Mile	0.10
End Levee Mile	0.24
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Revegetation site. Photo taken spring 2012.	
johngw_s_20120509_812.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	05/08/2012 05/08/2012	John Williamson

Levee Mile Report Line	9
Start Levee Mile	0.10
End Levee Mile	0.24
Location	Water Side
Category	Earthen Levee
Item	Vegetation
The revegetation site on the berm with the fence showing. Photo taken spring 2012.	
johngw_s_20120509_813.jpg	



Levee Mile Report Line	10
Start Levee Mile	0.46
End Levee Mile	0.46
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2011 Photo #1	
johngw_s_20120313_449.jpg	



Levee Mile Report Line	10
Start Levee Mile	0.46
End Levee Mile	0.46
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2011 Photo #2	
johngw_s_20120313_450.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	05/08/2012 05/08/2012	John Williamson

Levee Mile Report Line	10
Start Levee Mile	0.46
End Levee Mile	0.46
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2011 Photo #3	
johngw_s_20120313_451.jpg	



Levee Mile Report Line	11
Start Levee Mile	0.98
End Levee Mile	0.98
Location	Water Side
Category	Earthen Levee
Item	Animal Control
A very large hole on the waterside of the oak tree. Photo taken spring 2012.	
johngw_s_20120509_814.jpg	



Levee Mile Report Line	12
Start Levee Mile	1.02
End Levee Mile	1.11
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Revegetation site. Photo taken spring 2012.	
johngw_s_20120509_815.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	05/08/2012 05/08/2012	John Williamson

Levee Mile Report Line	12
Start Levee Mile	1.02
End Levee Mile	1.11
Location	Water Side
Category	Earthen Levee
Item	Vegetation
The revegetation site along the berm and shoulder of the river.	
johngw_s_20120509_816.jpg	



Levee Mile Report Line	13
Start Levee Mile	1.71
End Levee Mile	1.71
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Ramp for dock not being used.	
johngw_s_20120313_455.jpg	



Levee Mile Report Line	14
Start Levee Mile	1.73
End Levee Mile	1.73
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Revegetation site with the Elderberry Beetle. Photo taken spring 2012.	
johngw_s_20120509_817.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 Sacramento River	Right	10.51	05/08/2012 05/08/2012	John Williamson

Levee Mile Report Line	14
Start Levee Mile	1.73
End Levee Mile	1.73
Location	Water Side
Category	Earthen Levee
Item	Vegetation

A photo of a Elderberry bush in the area.

johngw\_s\_20120509\_818.jpg



Levee Mile Report Line	15
Start Levee Mile	2.17
End Levee Mile	2.17
Location	Water Side
Category	Earthen Levee
Item	Encroachments

A pile of concrete rubble on the berm. Photo taken spring 2012.

johngw\_s\_20120509\_819.jpg



Levee Mile Report Line	16
Start Levee Mile	2.36
End Levee Mile	2.42
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Revegetation site Photo taken spring 2012.

johngw\_s\_20120509\_820.jpg



<p><b>* Location</b></p> <p>LS : Land Side WS : Water Side CR : Crown</p>	<p><b>** Rating</b></p> <p>A : Acceptable M : Minimally Acceptable U : Unacceptable</p> <p>N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor &amp; Maintain</p>	<p><b>+ Issue Type</b></p> <p>Ma : Maintenance Deficiency Ob : Design &amp; System Obsolescence En : Enforcement</p>
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Levee Inspections**

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	05/08/2012 05/08/2012	John Williamson

Levee Mile Report Line	16
Start Levee Mile	2.36
End Levee Mile	2.42
Location	Water Side
Category	Earthen Levee
Item	Vegetation
The revegetation site extends almost to the hinge point.	
johngw_s_20120509_821.jpg	



Levee Mile Report Line	18
Start Levee Mile	3.55
End Levee Mile	3.55
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2011 Photo #1	
johngw_s_20120313_452.jpg	



Levee Mile Report Line	18
Start Levee Mile	3.55
End Levee Mile	3.55
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2011 Photo #2	
johngw_s_20120313_453.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspections**

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Unit No. 01 Sacramento River	Right	10.51	05/08/2012 05/08/2012	John Williamson

Levee Mile Report Line	18
Start Levee Mile	3.55
End Levee Mile	3.55
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2011 Photo #3	
johngw_s_20120313_454.jpg	



Levee Mile Report Line	19
Start Levee Mile	4.21
End Levee Mile	4.21
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2011 Photo #1	
johngw_s_20120313_456.jpg	



Levee Mile Report Line	19
Start Levee Mile	4.21
End Levee Mile	4.21
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2011 Photo #2	
johngw_s_20120313_457.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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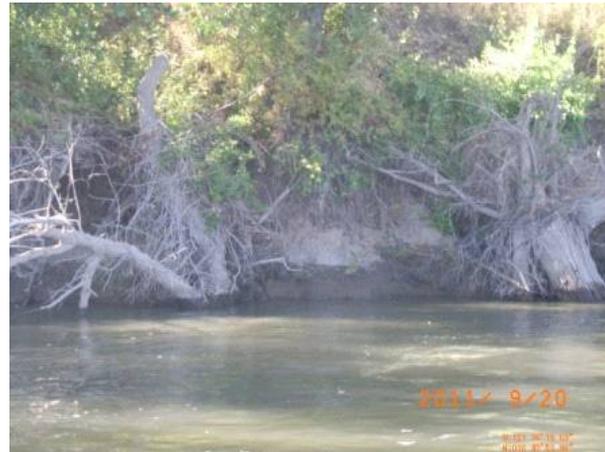
**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	05/08/2012 05/08/2012	John Williamson

Levee Mile Report Line	19
Start Levee Mile	4.21
End Levee Mile	4.21
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2011 Photo #3	
johngw_s_20120313_458.jpg	



Levee Mile Report Line	19
Start Levee Mile	4.21
End Levee Mile	4.21
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2011 Photo #4	
johngw_s_20120313_459.jpg	



Levee Mile Report Line	19
Start Levee Mile	4.21
End Levee Mile	4.21
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2011 Photo #5	
johngw_s_20120313_460.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	05/08/2012 05/08/2012	John Williamson

Levee Mile Report Line	21
Start Levee Mile	5.26
End Levee Mile	5.26
Location	Water Side
Category	Earthen Levee
Item	Encroachments
A refrigerator on the waterside berm. Photo taken spring 2012.	
johngw_s_20120509_822.jpg	



Levee Mile Report Line	24
Start Levee Mile	5.79
End Levee Mile	5.79
Location	Water Side
Category	Earthen Levee
Item	Encroachments
A pruning pile left over from the installation of the new pipe. Photo taken spring 2012.	
johngw_s_20120509_823.jpg	



Levee Mile Report Line	26
Start Levee Mile	6.05
End Levee Mile	6.05
Location	Land Side
Category	Earthen Levee
Item	Vegetation
The berries are taking over the slope. Photo taken spring 2012.	
johngw_s_20120509_824.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	05/08/2012 05/08/2012	John Williamson

Levee Mile Report Line	27
Start Levee Mile	6.23
End Levee Mile	6.23
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2011 Photo #1	
johngw_s_20120313_461.jpg	



Levee Mile Report Line	27
Start Levee Mile	6.23
End Levee Mile	6.23
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2011 Photo #2	
johngw_s_20120313_462.jpg	



Levee Mile Report Line	29
Start Levee Mile	6.65
End Levee Mile	6.65
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
The willows need to be cut for visibility of the slope. Photo taken spring 2012.	
johngw_s_20120509_825.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

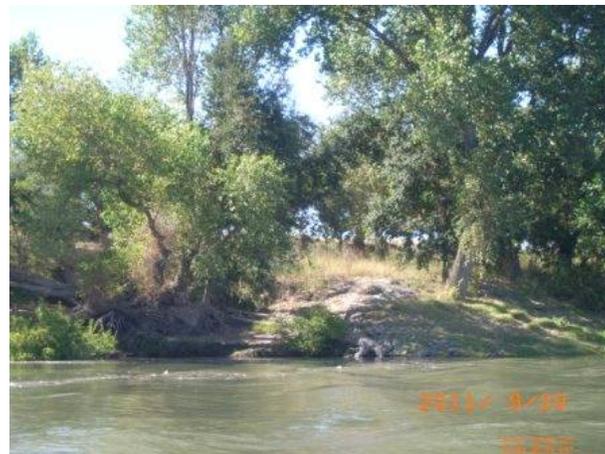
**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	05/08/2012 05/08/2012	John Williamson

Levee Mile Report Line	30
Start Levee Mile	6.97
End Levee Mile	6.98
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2011 Photo #1	
johngw_s_20120313_466.jpg	



Levee Mile Report Line	30
Start Levee Mile	6.97
End Levee Mile	6.98
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2011 Photo #2	
johngw_s_20120313_467.jpg	



Levee Mile Report Line	31
Start Levee Mile	7.00
End Levee Mile	7.00
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
The erosion is continuing to erode the berm area.	
johngw_s_20120313_464.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	05/08/2012 05/08/2012	John Williamson

Levee Mile Report Line	32
Start Levee Mile	7.02
End Levee Mile	7.02
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving
The erosion appears to be moving closer to the shoulder.	
johngw_s_20120313_474.jpg	



Levee Mile Report Line	33
Start Levee Mile	7.13
End Levee Mile	7.13
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
The erosion is eroding away at the berm area.	
johngw_s_20120313_468.jpg	



Levee Mile Report Line	33
Start Levee Mile	7.13
End Levee Mile	7.13
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
This another view of the site.	
johngw_s_20120313_469.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	05/08/2012 05/08/2012	John Williamson

Levee Mile Report Line	34
Start Levee Mile	7.27
End Levee Mile	7.27
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
<p>The bank is eroding away and has become very steep.</p>	
<p>johngw_s_20120313_470.jpg</p>	



Levee Mile Report Line	34
Start Levee Mile	7.27
End Levee Mile	7.27
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
<p>The erosion is eroding away the berm area.</p>	
<p>johngw_s_20120313_471.jpg</p>	



<p><b>* Location</b></p> <p>LS : Land Side WS : Water Side CR : Crown</p>	<p><b>** Rating</b></p> <p>A : Acceptable M : Minimally Acceptable U : Unacceptable</p> <p>N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor &amp; Maintain</p>	<p><b>+ Issue Type</b></p> <p>Ma : Maintenance Deficiency Ob : Design &amp; System Obsolescence En : Enforcement</p>
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**Flood Control Project Maintenance  
Levee Inspections  
Unit Cover Sheet  
Spring 2012 Levee Inspection Results  
Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles
Unit No. 02 Yolo Bypass	Left	4.22

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/24/2012 - 4/24/2012			
DWR Inspector	John Williamson			
Accompanied By	Kent Lang RD 1600			
	Kyle Lang RD 537/ RD 1600			

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 1600 Mull**

Waterway			Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass			Left	4.22	04/24/2012 04/24/2012	John Williamson

LMIR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.01	4.18	Earthen Levee	Vegetation	LS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	38.735867 ° -121.633608 °	38.677053 ° -121.643372 °	27 Y
DWR ID: DWR_RD1600_02_s_2012_27										
2	0.09	4.18	Earthen Levee	Vegetation	WS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	38.735880 ° -121.633597 °	38.677062 ° -121.643368 °	28 Y
DWR ID: DWR_RD1600_02_s_2012_28										
3	0.22	0.22	Earthen Levee	Crown Surface / Depressions / Rutting	CR A/W	M Ma	C3 : Add appropriate gravel or road base. Grade and compact.	38.732843 ° -121.633426 °	38.732843 ° -121.633426 °	10 Y
DWR ID: DWR_RD1600_02_s_2012_10										
4	0.35	0.35	Earthen Levee	Encroachments	WS	M En	PR : Prunings Inspector Comments: Piles are at the toe of the waterside slope.	38.730868 ° -121.633497 °	38.730868 ° -121.633497 °	29 Y
DWR ID: DWR_RD1600_02_s_2012_29										
5	0.49	0.49	Earthen Levee	Encroachments	WS	M En	PR : Prunings	38.728902 ° -121.633465 °	38.728902 ° -121.633465 °	30 Y
DWR ID: DWR_RD1600_02_s_2012_30										
6	0.68	0.77	Earthen Levee	Crown Surface / Depressions / Rutting	CR A/W	M Ma	C3 : Add appropriate gravel or road base. Grade and compact.	38.726252 ° -121.633424 °	38.724869 ° -121.633411 °	11 Y
DWR ID: DWR_RD1600_02_s_2012_11										
7	0.85	4.08	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M Ma	C1 : Keep the crown roadway free of vegetation.	38.723730 ° -121.633372 °	38.678393 ° -121.643858 °	31 Y
DWR ID: DWR_RD1600_02_s_2012_31										
8	1.65	1.65	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M Ma	C2 : Regrade the crown roadway for proper drainage.	38.712382 ° -121.636417 °	38.712382 ° -121.636417 °	32 Y
DWR ID: DWR_RD1600_02_s_2012_32										
9	1.74	2.01	Earthen Levee	Erosion / Bank Caving	WS	M Ma	E1 : Note and monitor erosion site.	38.710763 ° -121.637147 °	38.707116 ° -121.638722 °	14 Y
DWR ID: DWR_RD1600_02_s_2012_14										
10	2.12	2.23	Earthen Levee	Erosion / Bank Caving	WS	M Ma	E1 : Note and monitor erosion site. Inspector Comments: This is wave wash damage caused by last high water.	38.705614 ° -121.639357 °	38.704052 ° -121.640016 °	15 Y
DWR ID: DWR_RD1600_02_s_2012_15										
11	2.19	3.83	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M Ma	C3 : Add appropriate gravel or road base. Grade and compact. Inspector Comments: The areas on the crown. I have marked are the worst areas. The entire unit needs to have base added. This is to have all weather road for patrolling.	38.705027 ° -121.639568 °	38.682007 ° -121.644305 °	3 Y
DWR ID: DWR_RD1600_02_s_2012_3										

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	4.22	04/24/2012 04/24/2012	John Williamson

Levee Mile Report Line	1
Start Levee Mile	0.01
End Levee Mile	4.18
Location	Land Side
Category	Earthen Levee
Item	Vegetation
The grasses are taller than 12". Photo taken spring 2012.	
johngw_s_20120430_743.jpg	



Levee Mile Report Line	2
Start Levee Mile	0.09
End Levee Mile	4.18
Location	Water Side
Category	Earthen Levee
Item	Vegetation
The grasses are taller than 12". Photo taken spring 2012.	
johngw_s_20120430_744.jpg	



Levee Mile Report Line	3
Start Levee Mile	0.22
End Levee Mile	0.22
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting
The crown needs to be graded and AB added to the crown.	
johngw_s_20120313_482.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	4.22	04/24/2012 04/24/2012	John Williamson

Levee Mile Report Line	4
Start Levee Mile	0.35
End Levee Mile	0.35
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Pruning piles along the toe of the waterside levee. Photo taken spring 2012.	
johngw_s_20120430_745.jpg	



Levee Mile Report Line	5
Start Levee Mile	0.49
End Levee Mile	0.49
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Pruning piles along the the waterside toe of the levee. Photo taken spring 2012.	
johngw_s_20120430_746.jpg	



Levee Mile Report Line	6
Start Levee Mile	0.68
End Levee Mile	0.77
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting
This area is soft and needs to have AB added to make an all weather surface.	
johngw_s_20120313_483.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	4.22	04/24/2012 04/24/2012	John Williamson

Levee Mile Report Line	7
Start Levee Mile	0.85
End Levee Mile	4.08
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting
The crown roadway needs to be free of weeds. Photo taken spring 2012.	
johngw_s_20120430_747.jpg	



Levee Mile Report Line	8
Start Levee Mile	1.65
End Levee Mile	1.65
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting
Tire ruts are deeper than 6", the crown needs to be graded. Photo taken spring 2012.	
johngw_s_20120430_748.jpg	



Levee Mile Report Line	9
Start Levee Mile	1.74
End Levee Mile	2.01
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Wave wash damage along the slope the cut is 1'-2'.	
johngw_s_20120313_484.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	4.22	04/24/2012 04/24/2012	John Williamson

Levee Mile Report Line	9
Start Levee Mile	1.74
End Levee Mile	2.01
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
A closer view of the wave wash damage along the bypass.	
johngw_s_20120313_485.jpg	



Levee Mile Report Line	10
Start Levee Mile	2.12
End Levee Mile	2.23
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
This is wave wash damage along the toe of the levee looking downstream.	
johngw_s_20120313_486.jpg	



Levee Mile Report Line	10
Start Levee Mile	2.12
End Levee Mile	2.23
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Looking upstream a deeper cut of 2'-3' damage.	
johngw_s_20120313_487.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	4.22	04/24/2012 04/24/2012	John Williamson

Levee Mile Report Line	11
Start Levee Mile	2.19
End Levee Mile	3.83
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting
<p>The crown of the levee needs to have AB added. Some rutting has occurred.</p>	
<p>johngw_s_20120313_481.jpg</p>	



<p><b>* Location</b></p> <p>LS : Land Side WS : Water Side CR : Crown</p>	<p><b>** Rating</b></p> <p>A : Acceptable M : Minimally Acceptable U : Unacceptable</p> <p>N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor &amp; Maintain</p>	<p><b>+ Issue Type</b></p> <p>Ma : Maintenance Deficiency Ob : Design &amp; System Obsolescence En : Enforcement</p>
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